THE SOCIETY

THE SOCIETY

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DECUS

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY
MAYNARD, MASSACHUSETTS 01754 / TEL. 897-5111 / TWX 710 347-0212

DECUS CATALOG AND DECUS BINDER ORDER FORM

Please send me the following:

_____ DECUS Binder(s) for Literature Kits (blue, three inch size) - $3.50 each.

_____ DECUS Library Catalog Binder(s) (black, one inch size) - $2.50 each.

A total of $ _____ is enclosed.

- ☐ Attached is a purchase order to cover this amount.
- ☐ Please bill against this purchase order number _____.
- ☐ Please bill me directly.

PLEASE MAKE ALL CHECKS PAYABLE TO DECUS.

The charges for binders are being made to cover the cost of handling and postage.

****

The following catalogs are available from the DECUS Office. If you wish to receive any of the following please check the box and complete the form below.

☐ PDP-6/10,10 ☐ PDP-9/15 ☐ PDP-11 ☐ PDP-8 Family (FOCAL8)

☐ PDP-12 and LINC-8

Return to: DECUS, 146 Main Street, Maynard, Massachusetts 01754.

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

DEC 7-(369)-1178A-R174

DECUS File No. _____

Digital Equipment Computer Users Society
Maynard, Massachusetts

APPLICATION FOR INSTALLATION MEMBERSHIP

Installation Membership

A company or organization which now has, or which has on definite order, a Digital Equipment Corporation computer is eligible for Installation Membership.

An Installation should appoint a person immediately concerned with the use of the computer to act as delegate to the Society. A delegate receives all official communications and has a vote on DECUS policies and elections. An organization or company is eligible for as many voting delegates as it has DIGITAL computers.

(please type or print clearly)

Type of DIGITAL CPU Owned _____ Serial No. _____

INSTALLATION _____

(Company or Organization owning DIGITAL Computer)

APPOINTED DELEGATE _____ Signature* _____

MAILING ADDRESS _____

_____

_____

Business Telephone: Area Code _____ Number _____ Ext. _____

The above named delegate is a replacement for _____

DIGITAL Sales Office servicing your area _____

Indicate if: End User ☐ or OEM ☐ _____

This computer was purchased from _____

(Complete only if purchased from company other than DIGITAL)

*If this form was completed by someone other than delegate indicated above, please sign here

_____

PLEASE COMPLETE BY CHECKING THE APPROPRIATE BOXES IN BOTH CONFIGURATION AND APPLICATION SECTIONS WHICH APPEAR ON THE FOLLOWING PAGE

Please allow up to 4 weeks for processing.

SUBMIT TO: DECUS Executive Director, Digital Equipment Computer Users Society,
Maynard, Massachusetts 01754.

APPLICATION (PLEASE CHECK THE BOXES WHICH APPLY)

- ☐ General Research
- ☐ Physics
  - ☐ Nuclear
  - ☐ Low Energy
  - ☐ High Energy
- ☐ Biomedical
  - ☐ Psychology
  - ☐ Neurology
  - ☐ Physiology
  - ☐ Cardiology
  - ☐ Clinical Chemistry
  - ☐ Patient Monitoring
  - ☐ Patient Interviewing
  - ☐ Nuclear Medicine
  - ☐ Radiology
  - ☐ Cytology
  - ☐ Pulmonary Function
  - ☐ Biochemistry
  - ☐ Biophysics
  - ☐ Biomedical Engineering
  - ☐ Biology
  - ☐ Hospital information Systems
  - ☐ Medical Teaching
  - ☐ General Biomedical Research
  - ☐ Other _____
- ☐ Chemistry
- ☐ Aerospace
- ☐ Oceanography
- ☐ Navigation
- ☐ Communications
- ☐ Education
  - ☐ Primary
  - ☐ Secondary
  - ☐ College and University
  - ☐ Regional or District
  - ☐ Technical
  - ☐ Other _____
- ☐ Industrial
  - ☐ Process Control
  - ☐ Machine Tool
  - ☐ Utilities
  - ☐ Materials Handling
  - ☐ Automotive
  - ☐ Aerospace
  - ☐ Electronics
  - ☐ Other _____
- ☐ Transportation
- ☐ Graphic Arts
- ☐ Government
  - ☐ AEC
  - ☐ DOD
  - ☐ NASA
  - ☐ NIH
  - ☐ Army
  - ☐ Navy
  - ☐ Air Force
  - ☐ Coast Guard
  - ☐ Other _____
- ☐ Foreign Government
  - ☐ Atomic Energy
  - ☐ Defense
  - ☐ Space Administration
  - ☐ Health Administration
  - ☐ Military
  - ☐ Other _____
- ☐ Service Bureau
- ☐ Commercial Publishing
  - ☐ Newspapers
  - ☐ Periodicals
  - ☐ Books
  - ☐ Other _____
- ☐ Engineering
  - ☐ Civil
  - ☐ Mechanical
  - ☐ Architecture
  - ☐ Chemical
  - ☐ Nuclear
  - ☐ Electrical
- ☐ Data Acquisition Analysis & Display
  - ☐ Signal Averager
  - ☐ Pulse Height Analyzer/Time of flight
  - ☐ Optical Systems
  - ☐ Chromatographs
  - ☐ Spectrometers/Spectrophotometers
  - ☐ Diffractometers
  - ☐ Navigation Systems
  - ☐ Other _____
- ☐ System & Device Control
  - ☐ Process Control
  - ☐ Numerical Control
  - ☐ Component Testing
  - ☐ Flow Control
  - ☐ Other _____
- ☐ Non-Business Data Calculation
  - ☐ Simulation/Hybrid Computation
  - ☐ Off-Line Digital Computation
  - ☐ On-Line Time-sharing
  - ☐ Tape Preparation (Typesetting)
  - ☐ Other _____
- ☐ Business Data Calculation
  - ☐ Inventory Control
  - ☐ Market Research
  - ☐ Accounting
  - ☐ Invoicing
  - ☐ Management Information System
  - ☐ Other _____
- ☐ Message Concentration & Switching
- ☐ Other
  - ☐ Information Retrieval
  - ☐ Editing
  - ☐ Graphical Man/Machine System
  - ☐ Hotel
  - ☐ Retail
  - ☐ Financial
  - ☐ Architecture

_____

computer configuration

_____K core

- ☐ DECtape
- ☐ Magtape (Type _____)
- ☐ Disk Fixed Head (Swapping)
- ☐ Disk paks (Type _____)

List terminals:

_____

_____

_____

_____

_____

_____

Interfaced to: (Please list other computers to which this system is interfaced. Include other than DIGITAL equipment).

_____

_____

_____

DECUS File No. _____

Digital Equipment Computer Users Society
Maynard, Massachusetts

APPLICATION FOR INDIVIDUAL MEMBERSHIP

Individual Member

To qualify for individual membership in DECUS, one must be:

A user of a DIGITAL computer (not the appointed installation delegate) with a bonafide interest in DECUS activities.

An individual member cannot vote but can participate in all other activities.

(please type or print clearly)

NAME _____

COMPANY OR ORGANIZATION _____

MAILING ADDRESS _____

_____

_____

Telephone: Area Code _____ Number _____ Ext. _____

User of the following DIGITAL computer(s) _____

Nearest DIGITAL Sales Office _____

Signed _____

Submit to: DECUS Executive Director, Digital Equipment Computer Users Society, Maynard, Massachusetts 01754.

Please allow up to 4 weeks for processing.

SUBMITTAL FORM FOR PUBLICATION IN DECUSCOPE

DECUSCOPE is published periodically and all material for publication is subject to editing and retyping.

We encourage submission of technical articles on both hardware and software, programming notes and letters written between users which might be on interest or contain information useful to other users.

All diagrams, charts and listings should be submitted on plain white paper with black ink, and clear, sharp type. Photos should be glossy prints.

TYPE OF ARTICLE (Please check)

☐ Technical Article

_____ Application Note

_____ Software Development

_____ Hardware Development

☐ Programming Note

☐ Program(s) Available From Author

☐ FOCAL Points

☐ Wanted Item(s)

☐ Bits and Pieces

☐ Other _____

TITLE OF ARTICLE _____

AUTHOR _____

COMPANY _____

ADDRESS _____

_____

I give full permission to the Editor of DECUSCOPE to publish this article in full or part. I further warrant and represent that I have good and sufficient title and all rights and interest in and to the article to grant such permission to DECUS to the editor of DECUSCOPE.

Signed _____

SUBMIT TO: Mrs. Angela J. Cossette, Editor, Digital Equipment Computer Users Society, 146 Main Street, Maynard, Massachusetts 01754.

7/72

LOCAL USERS GROUP

WHAT IS A LUG?

A Local Users Group (LUG) is a DECUS activity in which people who use DEC computers and share a common field of interest can exchange hardware and software ideas. A LUG meeting differs from a DECUS Symposium in that its emphasis is localized and it is smaller in size. Members are better able to learn about other installations, and establish and maintain personal contact.

Most groups set their own meeting schedules; some meet every month, others less frequently. There are different ways to run these meetings. Some groups believe that the LUG should develop its activities as issues and interests become apparent. Any relevant subject can be raised. The objective might be to exchange ideas on DEC equipment and software, or to spend time on communication between the attendees and the representatives of DEC.

A large part of the meeting is used for "open floor" during which attendees can either seek or supply information. Some people may give a short presentation of the work performed on their DEC computer. If a DEC employee is available, he may be called upon to present the latest Corporate news. He may also be requested by the group to investigate certain items in Maynard.

The LUGs have other activies too. Some groups are working on a local program library. Such local libraries could be far more informal and tolerant to inaccuracies than, for instance, the DECUS Library could afford to be. On the other hand, when a programmer perceives that his program gains local popularity, he may write it up and submit it to DECUS. One can easily make a case that local libraries could provide a spinoff for the DECUS Library, rather than having any adverse effects on contributions to it.

HOW LUGS FIT IN THE DECUS ORGANIZATION

The first LUGs were formed in late 1968. Many more are in the process or have been formed since. During a DECUS Board meeting, it was decided that the structure of LUGs would be kept very informal. The few simple rules that guide them are:

1. Notify the DECUS LUG Coordinator of a group's organization.

2. Appoint a person who will act as chairperson for the group.

3. The chairperson or secretary should keep DECUS informed of its activities.

It should be emphasized that LUG is a DECUS activity even though many LUG members or meeting attendees may not be DECUS members. LUGs however, are free to communicate directly to DEC via their coordinator as much as they see fit. Even though it is preferable that all LUG members be DECUS members, it can only be suggested that they join.

HOW TO JOIN A LUG

If there is a LUG in your area, contact the chairperson for information on joining the group or attending its meetings. For a list of LUGs already formed, contact the DECUS office.

HOW TO FORM A LUG

If you would like to form a LUG for either a specific field of interest or general cross product, contact the DEC District Office in your area. A Software Support Specialist may be your likely contact if one is located in the area. Coordinate the formation of a LUG with the DEC representative who will, in coordination with the DECUS Office, contact users in the area to set up a formation meeting. If you prefer to deal directly with DECUS, contact the LUG Coordinator at the DECUS Office in Maynard, Massachusetts.

SERVICES OFFERED BY DECUS TO LOCAL USERS GROUPS

1. Maintain a complete list of current LUGs and their chairperson

2. Circulate minutes or announcements from each LUG to every chairperson

3. Maintain a mailing list of the LUG members

4. Copy and mail announcements and minutes for an individual LUG (DECUS must have two weeks notice and all material should be reasonably clean, legible, sufficiently dark copy to print from and 8 1/2" X 11".)

5. Supply information and assistance for the formation of a new LUG

6. Coordinate efforts in obtaining DEC speakers for LUG meetings

PUBLICATIONS

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

BYLAWS

ARTICLE I – NAME OF THE ORGANIZATION

SECTION A - The name of this organization shall be DECUS (Digital Equipment Computer Users Society).

ARTICLE II – PURPOSE OF THE ORGANIZATION

SECTION A - The primary objective of DECUS is to advance the effectiveness of utilization of computers manufactured by Digital Equipment Corporation and their associated peripheral equipment by promoting the free interchange of information concerning their use.

SECTION B - Specific objects shall be:

1. To advance the art of computation through mutual education and interchange of ideas and information.

2. To establish standards and to provide channels to facilitate the exchange of computer programs among members.

3. To provide feedback to the computer industry on equipment and programming needs.

SECTION C - Limitations:

1. The organization shall have no power or authority over its members.

2. The organization shall not be responsible for the actions of any of its members or delegates to its sessions.

3. None of the members or delegates to its sessions shall be responsible for the actions of the organization.

ARTICLE III – MEMBERSHIP

SECTION A - Installation Membership:

1. Qualifications - A company or organization which now has, or which has on definite order, a computer manufactured by Digital Equipment Corporation may qualify for this class of membership. Companies or organizations having more than one such machine may apply for multiple memberships, each with its own responsibilities and privileges as described in these bylaws.

Qualification for Installation Membership shall be automatic unless in the judgment of the Executive Board that membership would not be consonant with the spirit of the Society.

2. Procedure for Joining - Prospective members shall submit a written application for membership to the Executive Secretary, stating the type and identification number of their machine and designating an individual immediately concerned with the use of the computer to act as their delegate. Applicants shall become members upon decision of the Executive Board that membership qualifications have been met. The appointed delegate shall then receive all official communications from DECUS and shall hold the right to vote on formal matters.

3. Responsibilities - Each installation shall maintain active membership in DECUS as evidenced by the writing and/or review of computer programs, the continuing representation by an individual of the organization, and the demonstration of a spirit of cooperation and interest in the advancement in the use of computers.

4. Voting Rights - Formal voting privileges consist of the right to vote in the Executive Board elections, on proposed amendments to the bylaws, and on motions made to and by the Executive Board.

Informal voting privileges consist of the right to vote on all questions other than formal voting matters.

SECTION B - Individual Membership:

1. Qualifications - Any individual with a bona fide interest in the activities of DECUS, as approved by the Executive Board, may qualify for this class of membership.

2. Procedure for Joining - Prospective members must submit a written application for membership to the Executive Secretary stating the specific nature of their interest in DECUS. Applicants shall become members upon a decision by the Executive Board that membership qualifications have been met.

3. Responsibilities - Each individual shall maintain active participation in DECUS as evidenced by the writing and/or review of computer programs and the demonstration of a spirit of cooperation and interest in the advancement in the use of computers.

SECTION C - Termination of Membership:

1. Suspension of membership shall be voted by the Executive Board upon their determination that a member no longer meets the requirements for

membership. A suspended member must be notified immediately of the cause of suspension and given thirty days to reply. Within the following thirty days, after receipt of reply, the membership shall be polled on the alternatives of termination or reinstatement of the suspended membership. The ballot shall be accompanied by the Executive Board's notice of cause of suspension and the suspended member's reply.

2. An installation member may resign by written notice to the Secretary from the signer of the original application or his successor. An individual member may resign by written notice to the Executive Secretary.

SECTION D - There shall be no dues for this organization. The Executive Board shall be empowered to set a registration fee, applicable to all members, for attendance at meetings.

ARTICLE IV — EXECUTIVE BOARD

SECTION A - The Government of DECUS shall be vested in the Executive Board.

SECTION B - Membership:

The Executive Board shall consist of six members elected by the installation members of DECUS. Their titles and terms of office shall be as follows:

President	2 years
Recording Secretary	2 years
Programming Committee Chairman	2 years
Equipment Committee Chairman	2 years
Meetings Committee Chairman	2 years
Publications Chairman	2 years

The DECUS President for the preceding term shall also be included in the Executive Board. He shall be a non-voting member except in the case of a tie in the vote of the Executive Board, in which case he shall have the deciding vote.

There shall be an Executive Secretary as a non-voting representative to the Executive Board. This office shall be filled by an appointee of Digital Equipment Corporation with consent of the Executive Board.

In addition, a non-voting representative of Digital Equipment Corporation shall be a member of the Executive Board ex officio.

SECTION C - Duties:

1. Executive Board - The Executive Board shall determine policy and interpret existing decisions of DECUS. They shall not wait until called upon

for advice, but shall take an active interest in the government of the organization. In pursuit of this duty, they shall maintain close liaison with one another in order to monitor closely all policy matters and to act as a continual stimulus to the organization.

2. President - The duties of the President shall be:

a. To preside at all meetings of the Executive Board, the annual business meeting, and at all organization-wide technical meetings, or delegate a suitable representative.

b. To make provision for the discharge, pro tempore, of the necessary duties of absent members of the Executive Board.

c. To see that the bylaws of the organization are enforced.

d. To carry out assignments and instructions given to him by vote of the organization.

e. To perform such other duties as customarily pertain to the office of Chairman.

3. Recording Secretary - The duties of the Recording Secretary shall be:

a. He has the primary responsibility for being completely familiar with all DECUS bylaws, decisions, and policies and seeing to it that the business of DECUS is transacted in accordance with these.

b. He shall issue notices and agenda of the Executive Board Meetings as directed by the President and Executive Board.

c. He shall be responsible for keeping records of Executive Board meetings and distributing these records to the members of the Executive Board and to the membership at large, when appropriate.

d. He shall be ex officio chairman of the Election Committee for the execution of the annual elections and all other balloting on formal matters. He shall be responsible for placing proper notices in DECUSCOPE, distribution, collection, and counting of ballots, and formal announcement of the new Executive Board officers in DECUSCOPE.

e. He shall be responsible for recording the proceedings of business sessions of the Society held during the organization-wide meetings.

4. Executive Secretary - The duties of the Executive Secretary shall be as follows:

a. He shall be responsible for the correspondence of the Society and shall communicate this correspondence to the Executive Board when appropriate.

b. He shall be responsible for the physical maintenance of the DECUS Program Library and for its distribution to the membership.

c. He shall be the Editor of DECUSCOPE and of all other official publications of the Society.

d. He shall maintain a current list of the installation and individual members of DECUS, including records pertinent to membership status.

e. He shall maintain a current list of installation configurations of the member installations.

f. He shall provide communication between the individual members of the Executive Board and the membership at large.

5. Publications Chairman - The duties of the Publications Chairman shall be:

a. He shall serve as liaison between the Executive Board and the Editor of the DECUS Publications.

b. He shall initiate new editorial policies before the Executive Board.

c. He shall serve as advisor to the Editor of DECUSCOPE and shall keep in constant contact with the publication of this monthly newsletter.

d. He shall serve as advisor to the Editor of the Proceedings of the Society as well as the proceedings of any regional technical symposium.

6. Meetings Chairman - The duties of the Meetings Chairman shall be:

a. He shall be responsible for obtaining sites for the organization-wide meetings.

b. He shall be responsible for the technical agenda of the organization-wide meetings.

c. He shall have over-all responsibility for the execution of organization-wide meetings.

d. In the absence of the President, he shall preside over the Executive Board Meetings.

e. He shall serve as assistant to the President in Society affairs.

7. Programming Chairman - The duties of the Programming Chairman shall be:

a. He shall serve as liaison between the Executive Board and the Executive Secretary on matters concerning the DECUS Program Library.

b. He shall initiate new policies concerning the DECUS Program Library before the Executive Board.

c. He shall serve as liaison between the Society and other computer user groups and shall serve as the Society's official representative to JUG, the Joint User Group of the Association for Computing Machinery.

8. Equipment Chairman - The duties of the Equipment Chairman shall be:

a. He shall serve as liaison between the Executive Board and the Executive Secretary on matters concerning hardware connected to and associated with Digital Equipment Corporation computers.

b. He shall maintain a familiarity with equipment pertaining to Digital Equipment Corporation computers and shall be responsible for dissemination of this information to the membership when appropriate.

c. He shall serve as advisor to the Executive Secretary in the maintenance of as complete and current files as possible giving the hardware configuration of installation members for the purpose of aiding members with questions and problems concerning hardware.

SECTION D - Eligibility:

Any member shall be eligible for election to the Executive Board and for holding such office provided he is in good standing and has given assurance that if elected he will diligently carry out the duties of his office.

SECTION E - 1. Nominating and Voting Eligibility:

All members--both individual members and installation members--are eligible to make nominations for election to the DECUS Executive Board. Only delegates of installation members are eligible to vote, in accordance with Article VI B, below. Each installation member and Executive Board member may cast one vote for each elective office. An Executive Board member who is also a delegate of an installation member may vote only once.

2. Nominating Procedure:

a. The Chairman of the Equipment Committee is ex-officio Chairman

of the Nominating Committee.

b. At the Spring DECUS Meeting he will present to the members a slate of possible candidates for nomination and will call for additional nominations at this time.

c. Nominations may be made during this meeting and for a period of one (1) month after the close of the meeting. Nominations made after the close of the meeting may be mailed to the Chairman of the Nominating Committee.

d. All nominations, including written nominations, must be supported by three members in addition to the member making the nomination.

e. After closing of the nominations, the list of candidates will be published in the DECUSCOPE together with a brief write-up of each candidate. The Chairman of the Nominating Committee will be responsible for furnishing such write-ups to the DECUS Recording Secretary.

3. Election Procedure:

a. At least two months prior to the Fall DECUS Meeting and/or in such time as to ensure the completion of election proceedings prior to this meeting, the DECUS Recording Secretary will mail election ballots to all authorized DECUS Installation Delegates.

b. The Delegates will fill out these ballots and return them by mail to the DECUS Recording Secretary.

c. The ballots will be counted and the result of the election announced in the following issue of the DECUSCOPE.

d. The newly elected officers will take office on January 1 following the Fall DECUS Meeting.

SECTION F - Vacancies in offices which occur between regular elections shall be filled by vote of the Executive Board.

SECTION G - A simple majority carries a proposal.

SECTION H - Term of Office:

The Programming, Equipment and Publications Chairmen shall be elected in years alternate to the other members of the Executive Board. In order to achieve this, the Executive Board may extend the term of office of the necessary members by one year at the time this provision goes into effect.

SECTION I - Resignations of Executive Board Members:

a. A member of the Executive Board may resign for personal reasons.

b. A member of the Executive Board may be required to resign by majority vote of the Executive Board if he is no longer associated with a firm or institution that is actively interested in and directly associated with a Digital Equipment Corporation computer.

SECTION J - The President and Executive Secretary shall have authority in financial matters of the Society.

SECTION K - Any member of the Executive Board except the President, being unable to attend an Executive Board Meeting, may appoint a proxy. If the President is unable to attend an Executive Board Meeting, his place at the meeting will be assumed by the Meetings Committee Chairman, or else the Past President if the Meetings Committee Chairman is also unavailable.

ARTICLE V — STANDING COMMITTEES

SECTION A - Names and purpose of standing committees:

The following standing committees shall function for the purpose of considering what subjects might be profitably discussed by the organization and provide the information on which to base these discussions:

Programming Committee
Equipment Committee
Meetings Committee
Publications Committee

SECTION B - Duties of the Standing Committees:

1. Continually consider, recommend, and arrange ways in which the organization can be more valuable to all its members.

2. Consider and disseminate to all members valuable information derived from committee discussion and study.

3. Aid in the establishment of standards such that communication among members is possible.

4. Actively seek out areas where it appears that further study would be helpful to the membership.

SECTION C - Standing Committee Composition:

Each standing committee shall be composed of one chairman and as many other members, appointed by the chairman, as he sees fit. Each chairman shall serve simultaneously as the standing committee chairman and a member of the Executive Board.

ARTICLE VI – MEETINGS

SECTION A - Type and Frequency:

There are two types of meetings of the Society: Organization-wide meetings and regional meetings.

1. There shall be two organization-wide meetings a year: A Spring DECUS Meeting and a Fall DECUS Meeting. The purpose of these meetings will be to carry out the specific objectives of the Society as described in Article II.

2. There shall be an unspecified number of DECUS Regional Technical Symposia each year. These meetings will be held as the need arises and will be limited in either scope of subject matter, geographical location of the participants, or type of DEC computer.

SECTION B - Voting:

1. Voting on formal matters shall be limited to Executive Board members and installation members. A favorable vote by two-thirds of this group is required for a motion to amend the bylaws, while a simple majority of those responding to a ballot shall be required to pass all other motions.

2. Voting on informal matters shall be by all members, with a simple majority carrying the motion.

SECTION C - The procedure at all meetings of DECUS shall be governed by the rules of these bylaws and such other special rules as may be designed and set forth by this organization.

SECTION D - Motions to the Executive Board:

Any member may make a motion to the Executive Board. This motion must be in writing and accompanied, in writing, by at least three seconds to the motion by other members.

ARTICLE VII – SPECIAL USER GROUPS WITHIN DECUS

SECTION A - Purpose of Special User Groups

Special User Groups (SUGs) may be formed to conduct meetings that are regional in character or specialized in technical scope and to promote interchange of specialized information.

SECTION B - Formation of Special User Groups

A group of users must petition the Executive Board for recognition as a Special User Group. The group must have a Chairman, but its organization is otherwise at the discretion of the SUG and Executive Board.

SECTION C - Restrictions of Special User Groups

1. A chairman and other officers (if any) must be elected by members of the Special User Group at least once every two years.

2. The Special User Group must hold at least one meeting a year.

3. Monies may be collected and spent only for meetings sponsored by the Special User Group. A report of monies collected and spent shall be presented to the Executive Board and published in DECUSCOPE at least once a year.

4. All members of SUGs must be members of DECUS.

SECTION D - Services to be Provided by DECUS to Special User Groups

1. Proceedings of SUG meetings will be published and distributed by DECUS. Distribution may be made to membership of the SUG or to DECUS at large, at the discretion of the Executive Board.

2. Notices of interest to the membership of the Special User Group shall ordinarily be published in a special column in DECUSCOPE. Such notices shall not be distributed to less than the entire DECUS membership except under special circumstances determined by the Executive Board.

3. DECUS will provide clerical services and help coordinate a SUG's activities to an extent determined by the Executive Board.

SECTION E - Representation on the Executive Board

The Chairman of a Special User Group will have a vote in matters concerning the application of Sections C, D, and F with respect to said Special User Group.

SECTION F - Dissolution of Special User Groups

1. A SUG may be dissolved by petition of its membership to the Executive Board. A notice of dissolution will be published in DECUSCOPE, and the Executive Board may effect dissolution no sooner than one month after such notice has appeared.

2. A SUG may be dissolved by vote of the Executive Board if Section C is violated. A notice of dissolution will be published in DECUSCOPE and the dissolution will take effect after the next business meeting of DECUS, provided that this business meeting is held at least three months after notice of dissolution has appeared in DECUSCOPE. At this meeting, the Executive Board's action may be overruled by the membership. If the Group appeals the Executive Board's action, reasonable publication will be allowed to any member of the SUG.

3. Any funds existing in a SUG's treasury after dissolution will revert to the DECUS treasury.

November 1967

DECUS

Digital Equipment Computer Users Society
Maynard, Massachusetts

APPLICATION FOR INSTALLATION MEMBERSHIP

Installation Membership

A company or organization which now has, or which has on definite order, a Digital Equipment Corporation computer is eligible for Installation Membership.

An Installation should appoint a person immediately concerned with the use of the computer to act as delegate to the Society. A delegate receives all official communications and has a vote on DECUS policies and elections. An organization or company is eligible for as many voting delegates as it has Digital computers.

* * * * * * * * * *

(Please type or print clearly.)

Computer Class PDP-_____ or LINC-_____ Serial No._____

Delegate_____

Name of Installation_____
(Company or Organization)

Business Address_____

City_____ State_____ Zip Code_____

Business Telephone: Area Code_____ Number_____ Ext._____

The delegate named above is a replacement for_____
(name of previous delegate)

This computer was purchased from_____
(Company other than Digital)

Specific Application(s) of the Computer

_____

_____

_____

_____

_____

_____

_____

(over)

Please indicate below which peripheral equipment is used in conjunction with the computer specified on Page 1.

CONFIGURATION-DEC Processor Options

Memory Size _____

Paper Tape Reader _____

Console Teleprinter _____

DECtape Control Type _____

Magnetic Tape Control Type _____

Displays: CRT _____

Light Pen _____

Card Reader Type _____

Drum Type _____

Disc Type _____

Extended Arith. Element _____

A-D Converter _____

Multiplexers _____

Buffers _____

Special Devices _____

Auxillary Storage _____

Paper Tape Punch _____

Remote Teleprinter(s) _____

DECtape Transport Type _____

Magnetic Tape Transport Type _____

Plotters _____

Others _____

Card Punch Type _____

Drum Control _____

Disc Control _____

Data Communication System _____

D-A Converter _____

Line Printer _____

Automatic Mul & Div _____

OTHER EQUIPMENT (not supplied by DEC):

_____

_____

_____

_____

_____

_____

Please allow three to four weeks for processing.

I (do) (do not) have a DECUS three-ring binder containing information regarding the Society and its activities.

Signed _____

Submit To: DECUS Executive Secretary, Digital Equipment Computer Users Society, Main Street, Maynard, Massachusetts 01754.

DECUS

Digital Equipment Computer Users Society
Maynard, Massachusetts

APPLICATION FOR INDIVIDUAL MEMBERSHIP

Individual Member

To qualify for individual membership in DECUS, one must be:

An employee of a company or organization owning a DEC computer other than the appointed delegate.

or

An individual not employed by an organization owning a DEC computer but who does have a direct interest in DEC computers and DECUS activities.

An individual member cannot vote, but can participate in all other activities.

* * * * * * * * * *

(Please type or print clearly.)

QUALIFICATIONS FOR DECUS MEMBERSHIP

INSTALLATION

An organization which has purchased or which has on order a Digital Equipment Corporation computer is automatically eligible for installation membership in DECUS - Digital Equipment Computer Users Society. Membership is not automatic, however; a written application must be submitted to the Executive Secretary for approval by the DECUS Board.

Installation membership is in the name of an organization or company. Each organization appoints a delegate to whom DECUS correspondence is directed and who acts as the liason and clearing house for DECUS information within his installation. An organization may appoint one delegate for each DEC computer owned. Thus, if an organization owns three DEC computers, he can appoint three delegates. The delegate should be one who is immediately concerned with the operation of the computer he represents, and who is willing to take an active part in DECUS activities, such as attending symposia, contributing articles to the newsletter and programs to the library, written either by the delegate or others at his installation. The delegate is entitled to vote on all DECUS policies and during election of officers. The delegate receives DECUS literature on an automatic basis, except library programs and proceedings, which are on a request basis. Proceedings are sent automatically to all meeting attendees only.

If the appointed delegate should leave the employ of the installation, it is the responsibility of the installation to appoint a replacement.

DUTIES OF A DECUS DELEGATE

The DECUS Delegate is the main tie between DECUS and the installation he represents. To help delegates keep their installations active in the society, and to inform new delegates of what is involved in being a DECUS Delegate, we have listed several of the responsibilities below.

1. The delegate is entitled to vote on all formal matters and during elections of officers. He should exercise this privilege.

2. A copy of the newsletter, DECUSCOPE, is sent to all members of DECUS. Delegates should notify the DECUS office of non-members who should be receiving the newsletter.

3. A copy of the proceedings of symposia are available to all DECUS members.

4. Announcements of technical meetings which are sent to the delegate should be posted at a central point within the installation enabling others to see this information.

5. He should occasionally submit material for publication in the newsletter, DECUSCOPE, either written by him or other members of the installation regarding either programming or an application of the PDPs.

6. He is responsible for keeping an up-to-date listing of programs available in the DECUS Library. He should also submit programs to the library which he feels may be of use to other DECUS members.

7. Attend meetings and symposia whenever possible, and also try to present a paper regarding the installation's application of the PDPs whenever possible.

8. He should try to review the programs he receives from the DECUS Library and return his comments and suggestions to DECUS for the benefit of future users of the program.

9. Take an active interest or participation, if possible, in the government of DECUS.

10. Submit suggestions and ideas to help improve or enlarge the services offered by DECUS.

SUBMITTAL FORM FOR PUBLICATION IN

DECUSCOPE

DECUSCOPE is published monthly and all material for publication (except personal letters) are subject to editing and retyping. Letters should be prepared on white bond paper whenever possible, otherwise first carbon copy should be used when the original is not available.

We encourage submission of letters written between users which might be of interest or contain information useful to other users.

All diagrams, charts, listings, or photos may be submitted separately and should be on plain white paper with black ink.

TYPE OF ARTICLE (Please check heading under which you wish your article to appear.)

Application Note	☐	Programming Note	☐
Software in Development	☐	Hardware Note	☐
Programs Wanted	☐	Programs "Available from Authors"	☐
Letters to the Editor	☐	Software for Sale or Lease	☐
FOCAL Points	☐	Equipment Available	☐
NEWS Item	☐	Equipment Needed	☐
Publications Available	☐	Question and Answer Section	☐

Other_____
(Please Define)

TITLE_____

AUTHOR_____

COMPANY_____

ADDRESS_____

_____

I give my full permission to the Editor of DECUSCOPE to publish this article in full or part.

Signed _____

Please send me a copy of the article (if edited) before publication for approval. ☐

Please use the following page for the text of your article. If additional space is needed, attach separate sheet.

ARTICLE FOR DECUSCOPE

TEXT: (Please type or print clearly.)

SUBMIT TO: Mrs. Angela J. Cossette, Editor; Digital Equipment Computer Users Society; Main Street; Maynard, Massachusetts 01754.

DECUS LIBRARY

PROGRAM SUBMITTAL INFORMATION

Programs may be contributed to or requested by any DECUS member from the

DECUS Program Library
Digital Equipment Computer Users Society
Maynard, Massachusetts 01754

PROGRAM SUBMISSION

Each Program should include the following:

1) Program Submittal Form (attached)
2) Writeup - (existing documentation permissible):
   Contents: Full operating instructions; Program Description; References for mathematical techniques employed; Additional information pertinent to users.
   Format: Preferably typewritten or printed (black and white), for reproduction purposes. In general, writeups will be reproduced without alteration.
3) Paper Tapes or DECtape * : Object (Binary) and Source (Symbolic).
   Cards (Source Deck)
   Label paper tapes with following information:
   a) Program Title
   b) Subtitles (indicate various program subroutines)
   c) Tape Format, i.e., Binary or ASCII
   d) Starting Address
   e) Version Date
   * User-supplied DECtapes will be replaced by DECUS.
4) Listings and Flowcharts, whenever possible.

PROGRAM REVISIONS and CORRECTIONS

Please include: New tapes; Writeup addendum indicating change; New Listings reflecting change.

PROGRAM CLASSIFICATIONS (reference Submittal Form)

I. Executive Routines, Assemblers & Compilers
II. Editors
III. Debuggers
IV. Punch and Loaders
V. Duplicators, Verifiers
VI. Arithmetic Routines - Elementary Functions, Numerical Input/Output
VII. Special Functions
VIII. Displays
IX. Text Manipulation, Symbol Manipulation and Sorts
X. Probability & Statistics - Curve Fittings
XI. Scientific & Engineering Applications
XII. Hardware Control
XIII. Games and Demonstrators
XIV. Linear Programming, Operations Research, Business Applications
XV. Desk Calculators
XVI. Maintenance
XVII. Miscellaneous

The Program announcement in DECUSCOPE will be abstracted from the information submitted on the attached form. This form may be reproduced, or additional forms may be obtained from the DECUS Program Library.

DECUS welcomes your comments, criticisms and suggestions.

DECUS PROGRAM SUBMITTAL FORM

Submitted to the PDP-_____ LINC-_____ Library
(Indicate computer(s) on which program may be run)

Title: _____

Author: _____ Date: _____

Submitted by: _____
(other than author)

Company: _____

Address: _____

Classification(s): _____
(reference "Program Classifications")

Minimum Hardware Required: _____

_____

Other Programs or Subroutines Needed: _____

_____

Programming Language: _____

Storage Requirement: _____

Restrictions: _____

Execution Time: _____

Miscellaneous: _____

Abstract (purpose of program and short description): _____

_____

_____

_____

_____

Material (indicate number of copies of each item submitted):

Paper Tape
Object: Binary ☐ RIM ☐ Source: ASCII ☐
____ ☐ ____ ☐ ____ ☐

DECtape
Object: Binary ☐ Source: ASCII ☐
____ ☐ ____ ☐

LINCtape
Object: Binary ☐ Manuscript: LAP-4 ☐
____ ☐ LAP-6 ☐

Cards (Source Deck) ☐ Listing ☐ Writeup ☐
Flowcharts ☐ Other Documentation ☐

I, the undersigned, give full permission to DECUS to publish information regarding this program in DECUSCOPE and to reproduce and distribute this program in full or part, free of charge, to all interested parties.

Signed: _____

DECUS

individual literature kit

Digital Equipment Computer Users Society
Maynard, Massachusetts

DECUS
DIGITAL EQUIPMENT COMPUTER USERS SOCIETY
MAYNARD, MASSACHUSETTS 01754 / TEL. 897-5111 / TWX 710 347-0212

Dear DECUS Member:

This literature kit has been prepared to help you become familiar with the users group and its activities.

Included in the kit are request forms for DECUS Program Library Catalogs, forms for submitting material to DECUSCOPE and the Program Library. Also included is a copy of the latest issue of DECUSCOPE, along with the indexes of past issues of the newsletter and proceedings. Enclosed is a form for ordering copies of past DECUS Proceedings and a list of reprints which are currently available. Reprints of specific articles are available free of charge.

We hope that this kit will be of value to you in your association with DECUS.

Sincerely,

Angela J. Cossette

Angela J. Cossette (Mrs.)
Executive Director

/bh

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DECUS PROGRAM LIBRARY

DECUS SERVICE CHARGES

GENERAL INFORMATION

All DECUS service charges are to help defray the cost of reproduction, handling and postage. All orders must be accompanied by cash, DECUS coupons or Purchase Order. Please make checks payable to DECUS.

Because of the difficulties encountered by many installations in obtaining Purchase Orders for small amounts, DECUS Coupons may be ordered for any amount and used as subsequent payment for DECUS services. Coupons are available in $1.00 and $5.00 denominations. They may be ordered as DECUS No. 0051.

All charges are in U.S. dollars.

European Users - Payment may be made in your currency, to: Martha Ries, Executive Secretary, Digital Equipment Co., Int'l Europe, 81 Route de L'Aire, 1227 Carouge/ Geneva, Switzerland. Please refer to currency exchange charts available from that office.

Service charge for DECUS Proceedings are:

Attendees to the meeting pertinent to the publication receive the first copy automatically at no charge. Additional copies are $5.00 each.

Non-attendees - $5.00 per copy.

Charges for the DECUS three-ring binders are:

One inch (1") Black Program Library Catalog Binder - $2.50
Two inch (2") Blue DECUS binder for Literature Kits - $3.50

Service charges and availability of material offered by the DECUS Program Library can be found in the pertinent DECUS Program Library Catalog.

DECUS

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY
MAYNARD, MASSACHUSETTS 01754 / TEL. 897-5111 / TWX 710 347-0212

Dear DECUS Member:

To facilitate the handling of orders for DECUS programs our library processing is divided into three sections. To help us expedite your order we enclosed two order forms. Please list the programs you wish to order on separate forms according to section.

SECTION I	SECTION II	SECTION III
PDP-8	PDP-11, FOCAL8 and BASIC8	PDP-6/10 & 10, PDP-12, PDP-9 & 15

In this way, as soon as one section of your order has been completed, it can be sent to you without the delay that could be caused by problems in another part of the order.

Due to the increased volume of orders for DECUS programs, please allow at least 3 to 4 weeks for delivery.

Thank you for your cooperation.

4/74

DECUS LIBRARY
PROGRAM SUBMISSION INFORMATION

Programs should be submitted to:

DECUS Program Librarian
Digital Equipment Computer Users Society
146 Main Street
Maynard, Massachusetts U.S.A. 01754

or

DECUS Executive Secretary
81 Route de L'Aire
1227 Carouge/Geneva
Switzerland

The following material MUST be included:

(1) Completed submittal form

Read the following notes which explain the form.

Section A

(1)	Object Computer(s) - computer(s) on which the program runs.
	Source Computer - computer on which program was assembled (if different).
(2)	File Name - mnemonic or acronym of 6 characters (8 for PDP-12) for mass storage purposes.
	Version No. - indicate version or development level. If unspecified DECUS will assume version No. 1.
(3-7)	Self-explanatory.
(8)	Category Codes - reference the list of codes distributed with the DECUS Library Catalog. (Additional copies of code listings are available from the DECUS office.)
(9)	Monitor - if the program runs under a monitor, all relevant details must be specified.
(10-14)	Self-explanatory
(15)	Please indicate if major revision or development is planned, with estimate of completion date.

Section B

The submission of an assembly (Pass 3) listing is optional but desirable; short listings may be incorporated into the write-up. Other acceptable material includes flow-charts, cross referenced listings, core maps or any other relevant documentation. The abstract must be written in English but full documentation may be in any language.

Section C

The authorization at the bottom of the submission form must be signed by the person having legal right and interest in the submitted program.

(2) Abstract

An abstract (in English) of up to 100 words must be attached. This will be used in the preparation of the DECUS Library Catalog entry.

(3) Write-up

It is requested that documents be suitable for direct reproduction. Clear operating and loading instructions must be part of any document submitted. Where applicable a printed copy of the tape file index, including a brief description of each file function, would be helpful.

(4) Paper Tape

All material should be fully labelled with program name, version, starting address (where applicable) and tape format (ASCII, binary, etc.). Source tapes should be submitted whenever possible.

and/or

(5) DECtape/LINCtape/Magtape

Attach to each tape a printed index of tape file contents. Specify mark track format used. Source files should be submitted whenever possible.

PROGRAM REVISIONS

Revisions to existing DECUS or DEC programs should be accompanied by a program revision submission form (attached).

DEC 7-(369)-1146-N972

September 1972

DECUS LIBRARY
NEW PROGRAM SUBMISSION

Form to be used when submitting new programs to DECUS.

A. GENERAL INFORMATION

1. Object Computer(s) _____ Source Computer (if different) _____
2. File Name _____ Version No. _____
3. Title _____
4. Author _____
5. Submitter (if other than author) _____
6. Affiliation _____
7. Address _____
   _____ Country _____
8. Category Code(s) (please list in order of importance) _____
9. Monitor/Operating System* _____ DEC No.* _____
10. Core Storage Required _____ Starting Address* _____
11. Peripherals Required _____
12. Other Software Required _____ DEC or DECUS No.* _____
13. Source Language _____
14. Restrictions, Deficiencies, Problems _____
    _____
15. Date of Planned or Possible Future Revisions _____

B. MATERIAL SUBMITTED

Documentation

Abstract (In English) ☐ Write-up ☐ Listing ☐ Documentation Language (if other than English) _____

Other Material (please specify) _____

Paper Tape

Object Binary ☐ Object ASCII ☐ Source ☐ Other _____

DECtape ☐ LINCtape ☐ Mark Track Format _____ Magtape: 7 Track ☐ 9 Track ☐ BPI _____

Specify Format/System (e.g. OS/8, LAP4, DIAL, DOS-11, DOS-15, etc.) _____

Object Files ☐ Source Files ☐ Documentation Files ☐ Other _____

C. AUTHORIZATION

I, the undersigned, give full permission to DECUS to publish information regarding this program and to reproduce and distribute this program in full or in part to all interested parties, in accordance with the then standard policies of DECUS for reproduction and distribution of programs submitted to DECUS. I further warrant and represent that I have good and sufficient title and all rights and interest in and to the program to grant such permission to DECUS.

Date _____ Signed _____

*Where applicable

September 1972

DECUS LIBRARY
PROGRAM REVISION SUBMISSION

Form to be used for modifications or revisions to existing DEC or DECUS software.

A. GENERAL INFORMATION

1. Object Computer(s) _____ Source Computer (if different) _____
2. Original File Name and Title _____
   _____ DECUS or DEC No. _____
3. Original Author _____
4. Revising Author _____
5. Affiliation _____
6. Address _____
   _____ Country _____

B. CHANGE INFORMATION

Please specify any changes to the following:

1. Category Code(s) (please list in order of importance) _____
2. Monitor/Operating System* _____ DEC No.* _____
3. Core Storage Required _____ Starting Address* _____
4. Peripherals Required _____
5. Other Software Required _____ DEC or DECUS No.* _____
6. Restrictions, Deficiencies, Problems _____

C. REASON(s) FOR REVISION

1. Debug, correct known problem ☐
2. Extend to handle new or different configurations ☐
3. Operate under different monitor or new system ☐
4. Increased operational efficiency ☐
5. Operate on different processor ☐ Specify _____
6. Other (please specify) _____

D. MATERIAL SUBMITTED

Documentation

All revisions should include a detailed statement of the changes made to the existing program.

Revised Abstract ☐ Revised Write-up ☐ New Listing ☐

Paper Tape

Object Binary ☐ Binary Patch ☐ Object ASCII ☐ Source ☐ Other _____

DECtape ☐ LINCtape ☐ Mark Track Format _____ Magtape: 7 Track ☐ 9 Track ☐ BPI _____

Specify Format/System (e.g. OS/8, LAP4, DIAL, DOS-11, DOS-15, etc.) _____

Object Files ☐ Source Files ☐ Documentation Files ☐ Other _____

E. AUTHORIZATION

I, the undersigned, give full permission to DECUS to publish information regarding this revision and to reproduce and distribute this revision in full or in part to all interested parties, in accordance with the then standard policies of DECUS for reproduction and distribution of programs submitted to DECUS. I further warrant and represent that I have good and sufficient title and all rights and interest in and to the revision to grant such permission to DECUS.

Date _____ Signed _____

*Where Applicable

September 1972

FUTURE SUBMISSIONS AND ANNOUNCEMENTS SHOULD BE CATEGORIZED USING THIS LIST

DECUS PROGRAM LIBRARY CATEGORY CODES*

00. Utility (External) Programs

- 0 Unclassified
- 1 Multiple Utility
- 2 Flowcharting
- 3 Magnetic Tape Handling
- 4 Paper Tape Handling
- 5 Disk Handling
- 6 Drum and Direct Data Devices
- 7 Graphic Display Devices
- 8 Remote Data Acquiaition

01. Utility (Internal) Programs

- 0 Unclassified
- 1 Loading
- 2 Clear/Reset Memory
- 3 Check Sum Accumulative and Correction
- 4 Internal Housekeeping
- 5 Dump to Reload/Restore Operations
- 6 File Organization
- 7 Self Checking Digit
- 8 Packed Data Handlers
- 9 Duplicators/Verifiers

02. Diagnostics

- 0 Unclassified
- 1 Status Recorders
- 2 Hardware Maintenance

03. Programming Systems

- 0 Unclassified
- 1 Assemblers
- 2 Compilers
- 3 Interpretive Systems
- 4 Input/Output Control
- 5 Report Generators
- 6 Preprocessing and Editing
- 7 Macros and Macro Generators
- 8 Functions and Subroutines
- 9 Desk Calculators

04. Testing and Debugging

- 0 Unclassified
- 1 Dumping
- 2 Tracing
- 3 Test Data Preparation
- 4 Testing Systems
- 5 Break Point Printing
- 6 Memory Verification and Searching
- 7 On-Line (DDT Type) Debuggers

05. Executive Routines

- 0 Unclassified
- 1 Monitor
- 2 Supervisors
- 3 Disassembly and Derelativizing
- 4 Relativizing
- 5 Relocation

06. Data Handling

- 0 Unclassified
- 1 Sorts
- 2 Merges
- 3 Data Transmission
- 4 Table Operation
- 5 Conversion and/or Scaling
- 6 Character and Symbol Manipulation
- 7 Information Classification, Storage, and Retrieval
- 8 List Processing
- 9 Typesetting

07. Input/Output

- 0 Unclassified
- 1 Binary
- 2 Octal
- 3 Decimal
- 4 BCD
- 5 Hexadecimal
- 6 Composite
- 7 ASCII
- 8 Plotting
- 9 Display

10. Systems Analysis

- 0 Unclassified
- 1 Network Design
- 2 File and Core Requirement
- 3 System Design
- 4 Configuration

11. Simulation of Computers and Components

- 0 Unclassified
- 1 Computers
- 2 Peripheral Equipment
- 3 System Component or Feature
- 4 Pseudo-Computer

12. Conversion of Programs and Data

- 0 Unclassified
- 1 Data Conversion
- 2 Computer Language Translators

*These category (classification) codes have been adopted directly from those established by JUG (Joint User Group)

September 1972

13. Statistical

0 Unclassified
1 Descriptive
2 Univariant and Multivariant Parametric
3 Non-Parametric
4 Time Series and Auto Correlation
5 Probability Distribution Sampling and Random Number Generators
6 Correlation and Regression Analysis
7 Analysis of Variance and Covariance
8 Sequential Analysis
9 Discriminant Analysis

15. Management Science/Operations Research

0 Unclassified
1 Simulations
2 Linear Programming
3 Non-Linear Programming
4 Scheduling/Critical Path/PERT/LESS
5 Games, Game-like Models and Game Theory
6 General Problem Solvers
7 Inventory Control

16. Engineering

0 Unclassified
1 Aeronautical
2 Civil
3 Chemical
4 Electrical
5 Mechanical and Hydraulic
6 Petroleum
7 Nuclear
8 General
9 Simulation

17. Sciences and Mathematics

0 Unclassified
1 General
2 Nuclear Physics
3 Chemistry
4 Geology, Oceanography, Oceanology and Geophysics
5 Biology
6 Social and Behavior
7 Astronomy and Celestial Navigation
8 Simulation
9 Pure Mathematics

18. Nuclear Codes

0 Unclassified

19. Financial

0 Unclassified
1 Inverting and Borrowing
2 Capital Stock
3 Taxes
4 Cash Custody and Forecasting
5 General Accounting
6 Auditing
7 Banking Operations

20. Cost Accounting

0 Unclassified
1 Material Only
2 Labor Only
3 Work in Progress

21. Payroll and Benefits

0 Unclassified
1 Payroll
2 Employee Benefits
3 Profit Sharing
4 Retirement
5 Insurance
6 Credit Union

22. Personnel

0 Unclassified
1 Recruiting and Hiring
2 Inventorying Employees
3 Training
4 Performance Review
5 Administering Wages and Salaries

23. Manufacturing

0 Unclassified
1 Scheduling/Loading
2 Job Reporting
3 Bill of Materials Processors
4 Numerical Control
5 Control Systems

24. Quality Assurance/Reliability

0 Unclassified
1 Testing
2 Performance Analysis

25. Inventory

0 Unclassified
1 Stocking and Issuing
2 Inventory Analysis
3 Equipment and Tool Inventory and Maintenance

26. Purchasing

0 Unclassified
1 Preparing Purchase Orders
2 Matching Invoices
3 Accounts Payable
4 Purchase Analysis

27. Marketing

0 Unclassified
1 Sales and Billings Forecasting
2 Promotion and Advertising
3 Bid or Request Analysis
4 Distribution or Territory Analysis

28. Sales Entered and Billed

0 Unclassified
1 Order Entry and Scheduling
2 Invoicing
3 Accounts Receivable
4 Sales and Billing Analysis
5 Backlog Reporting

29. General Business Services

0 Unclassified
1 Records Retention
2 Forms Management
3 Transportation
4 Printing and Reproduction

30. Demonstrations and Games

0 Unclassified
1 Display
2 Participation

40. Arithmetic Routines

0 Unclassified
1 Real Numbers
2 Complex Numbers
3 Decimal
4 Floating Point

41. Elementary Functions

0 Unclassified
1 Trigonometric
2 Hyperbolic
3 Exponential and Logarithmic
4 Roots and Powers
5 Geometry
6 Logical and Rounded

42. Polynomials and Special Functions

0 Unclassified
1 Evaluation of Polynomials
2 Roots of Polynomials
3 Evaluation of Special Functions
4 Simultaneous Non-Linear Algebraic Equations
5 Simultaneous Transcendental Equations

43. Operations on Functions and Solutions of Differential Equations

0 Unclassified
1 Numerical Integrations
2 Numerical Solutions of Ordinary Differential Equations
3 Numerical Solutions of Partial Differential Equations
4 Numerical Differentiation

44. Interpolation and Approximations

0 Unclassified
1 Table Look-up and Interpolation
2 Curve Fitting
3 Smoothing

45. Operations on Matrices, Vectors and Simultaneous Linear Equations

0 Unclassified
1 Matrix Operations
2 Eigenvalues and Eigenvectors
3 Determinates
4 Simultaneous Linear Equations
5 Vector Analysis

50. Insurance

0 Unclassified
1 Life
2 Fire
3 Pension and Welfare

61. Education

0 Unclassified
1 Demonstrations
2 Problem Solving
3 Record Keeping

62. Literary Data Processing

0 Unclassified
1 General
2 Language and Literature
3 Linguistics
4 Language Translation
5 Concordances
6 Content Analysis
7 Text Editing
8 Bibliographic Analysis
9 Text Manipulation

63. Humanities

0 Unclassified
1 General
2 Music
3 History
4 Art

71. Hybrid Computing

0 Unclassified
1 Analog/Digital, Digital/Analog Conversion
2 Real Time Computing
3 Simulation

72. Time Sharing

0 Unclassified

99. Miscellaneous

0 Unclassified